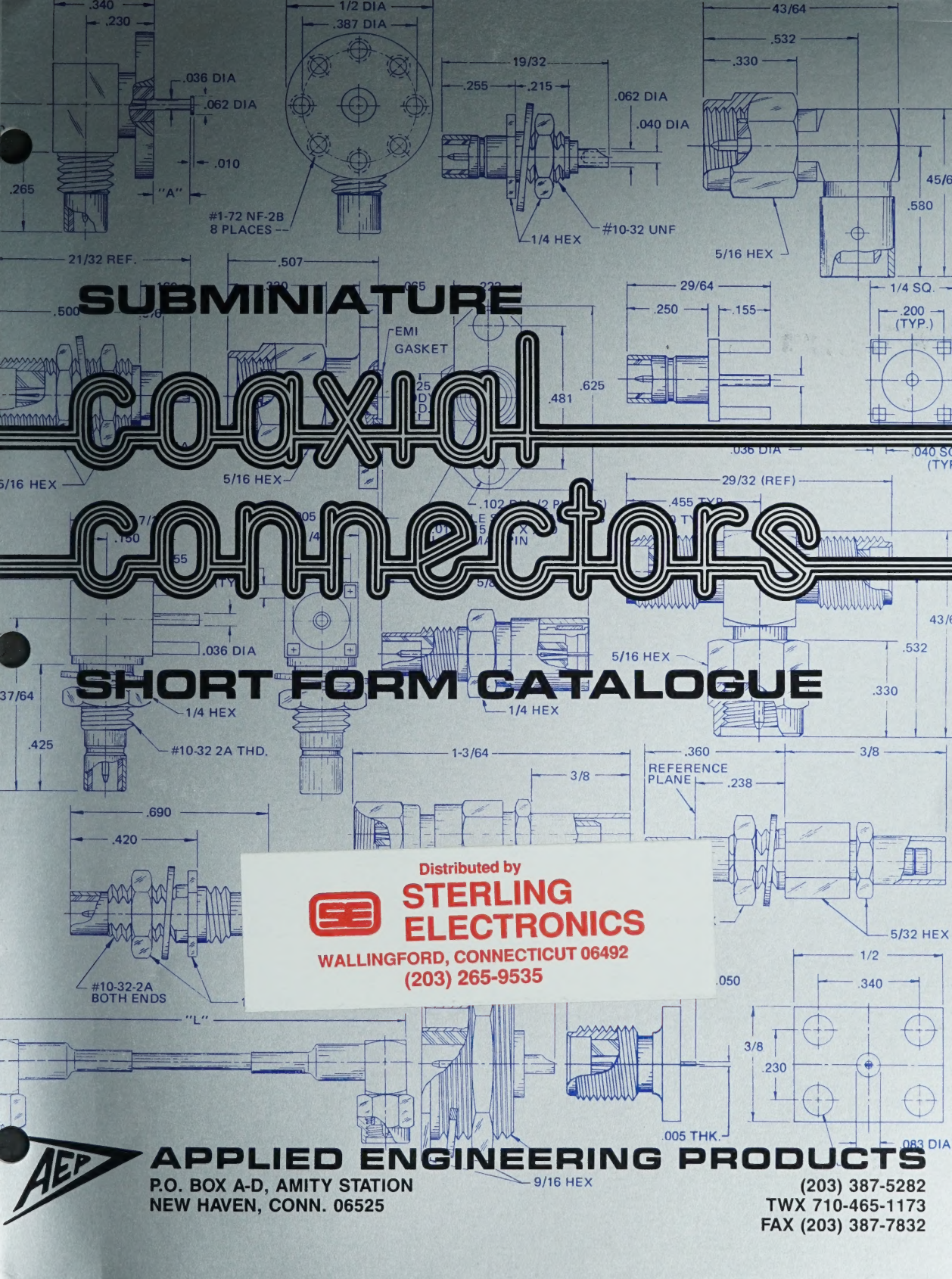




SUBMINIATURE

coaxial

connectors

SHORT FORM CATALOGUE



Distributed by

**STERLING
ELECTRONICS**

**WALLINGFORD, CONNECTICUT 06492
(203) 265-9535**



APPLIED ENGINEERING PRODUCTS

**P.O. BOX A-D, AMITY STATION
NEW HAVEN, CONN. 06525**

**(203) 387-5282
TWX 710-465-1173
FAX (203) 387-7832**



AEP SMA connectors meet or exceed all requirements of MIL-C-39012 (See interface dimensions below). All have 303 stainless steel bodies, Teflon insulators, and beryllium copper contacts. The finishes shown are for body parts only; all contacts are gold plated and all coupling nuts are passivated.

Our unique method of captivating contacts and insulators greatly reduces RF leakage by eliminating epoxy fill holes in the connector bodies.

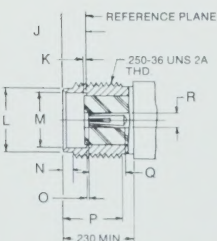
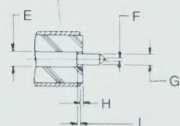
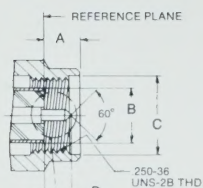
Frequency range: DC-18GHz.

MIL-C-39012 QPL versions available as noted.

Standard cable groups available for use with this series are:

Cable Group	Applicable cables
01	RG223, M17/60, M17/84, M17/158, M17/167 RG142
02	RG178, RG196, M17/93, M17/169
03	RG174, RG179, RG316, M17/113, M17/119, M17/172, M17/173
04	RG180, RG195, 21-597, Raychem 9530-A-1317
05	RG178DS, RG196DS, Microdot 250-3908
06	RG58, RG141, RG303, M17/111, M17/155, M17/170
08	RG174DS, RG188DS, RG316DS
09	.141" semi-rigid, RG402, M17/130
010	.085" semi-rigid, RG405, M17/133

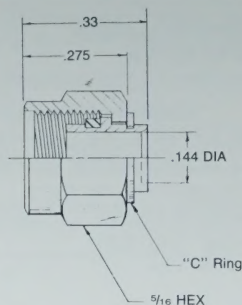
INTERFACE DIMENSIONS



Dim.	MIL	AEP
A	.135 max.	.117
B	.1808 max.	.180 +.0005 -.0015
C	.250 min.	.261 ±.002
D	.065 min.	.085 +.015 -.000
E	.049/.051	.050 ±.001
F	.015 max.	.010 +.000 -.005
G	.0355/.0370	.0360 ±.0005
H	.002 max.	.000 +.001 -.003
I	.000 +.000 -.010	.000 +.000 -.005

Dim.	MIL	AEP
J	.074/.078	.076 ±.001
K	.000 +.002 -.010	.000 +.000 -.005
L	.208/.216	.208 +.003 -.000
M	.181 min.	.182 +.000 -.0015
N	.015/.045	.030 ±.005
O	.000 +.000 -.030	.000 +.000 -.030
P	none	.200 ±.010
Q	.115 min.	.125 ±.005
R	.051/.049	.050 ±.001

See our full-line catalogue for complete specifications.



Straight Plug

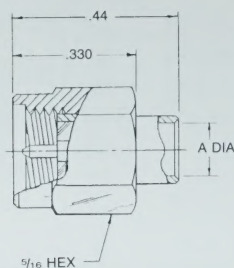
Direct solder attachment
Retractable coupling nut
Cable center conductor used as contact

For .141" semi-rigid:

9301-1063-009 (Gold plated)

9301-7063-009 (Nickel plated)

QPL version available (M39012/92)



Straight Plug

Direct solder attachment
Provided with contact and insulator

For .141" semi-rigid (A = .144):

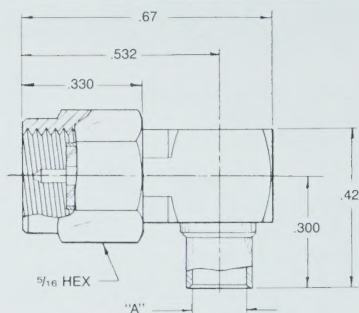
9401-1083-109 (Gold plated)

9401-7083-109 (Nickel plated)

For .085" semi-rigid (A = .089):

9401-1083-010 (Gold plated)

9401-7083-010 (Nickel plated)



Right Angle Plug

Direct solder attachment

For .141" semi-rigid (A = .144):

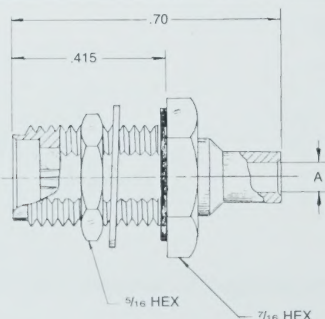
9443-1563-009 (Gold plated)

9443-7563-009 (Nickel plated)

For .085" semi-rigid (A = .089):

9443-1563-010 (Gold plated)

9443-7563-010 (Nickel plated)



Straight Bulkhead Jack

Direct solder attachment
Fits .125" max. panel

For .141" semi-rigid (A = .144):

9453-1083-009 (Gold plated)

9453-7083-009 (Nickel plated)

For .085" semi-rigid (A = .089):

9453-1083-010 (Gold plated)

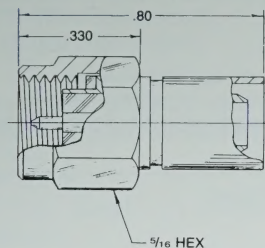
9453-7083-010 (Nickel plated)

Straight Plug

Crimp type

9001-1023-0XX (Gold plated)

9001-9023-0XX (Passivated)



Straight Plug

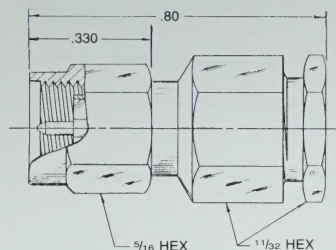
Clamp type, captive contact

QPL version
available

(M39012/55)

9201-1553-0XX (Gold plated)

9201-9553-0XX (Passivated)

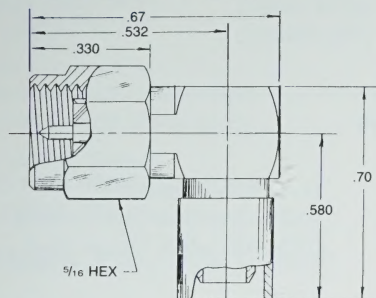


Right Angle Plug

Crimp type

9043-1523-0XX (Gold plated)

9043-9523-0XX (Passivated)

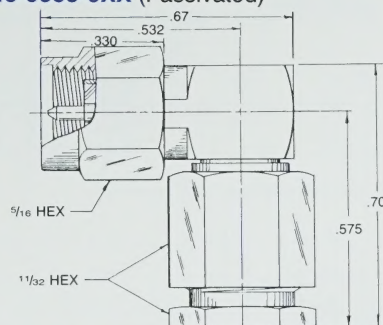


Right Angle Plug

Clamp type

9243-1553-0XX (Gold plated)

9243-9553-0XX (Passivated)

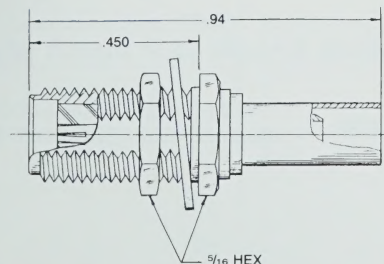


Straight Bulkhead Jack

Crimp type

9030-1023-0XX (Gold plated)

9030-9023-0XX (Passivated)



Straight Bulkhead Jack

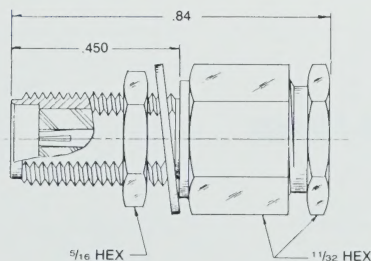
Clamp type, captive contact

QPL version
available

(M39012/59)

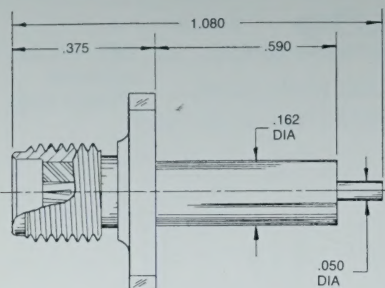
9230-1553-0XX (Gold plated)

9230-9553-0XX (Passivated)





PANEL RECEPTACLES



Extended Contact and Insulator

Square flange:

captive contact

9004-1113-000

9004-9113-000

non-captive contact

9004-1213-000 (Gold plated)

9004-9213-000 (Passivated)

2-hole flange:

captive contact

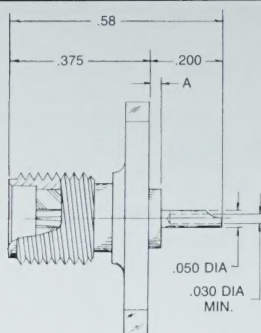
9008-1113-000

9008-9113-000

non-captive contact

9008-1213-000 (Gold plated)

9008-9213-000 (Passivated)



Solder Pot Contact

Captive contact

Square flange: (A = .000):

9404-1113-000 (Gold plated)

9404-9113-000 (Passivated)

QPL version

available

(M39012/60)

2-hole flange: (A = .030):

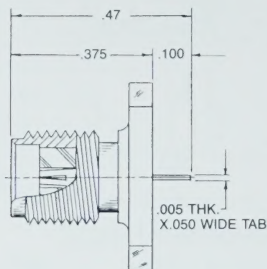
9408-1113-000 (Gold plated)

9408-9113-000 (Passivated)

QPL version

available

(M39012/60)



Tab Contact

Square flange:

captive contact

9104-1113-000

9104-9113-000

non-captive contact

9104-1213-000 (Gold plated)

9104-9213-000 (Passivated)

2-hole flange:

captive contact

9108-1113-000

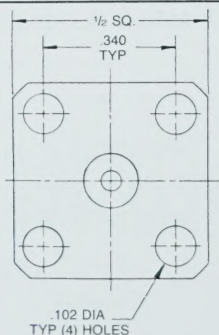
9108-9113-000

non-captive contact

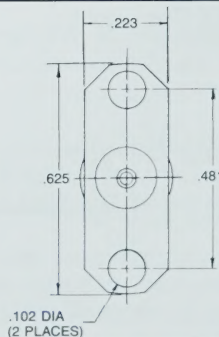
9108-1213-000 (Gold plated)

9108-9213-000 (Passivated)

Square Flange



2-Hole Flange



ALL AVAILABLE WITH OTHER CONTACT/INSULATOR CONFIGURATIONS

AEP
New Haven, CT
203/387-5282

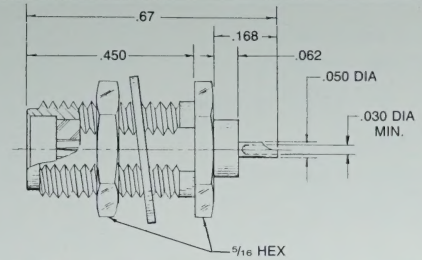
Bulkhead Jack Receptacle

Rear mount
Solder pot contact
Fits .125" max. panel
Captive contact

QPL version
available
(M39012/61)

9412-1113-000 (Gold plated)

9412-9113-000 (Passivated)

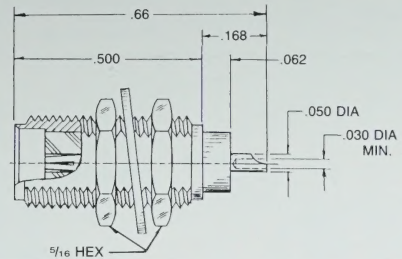


Bulkhead Jack Receptacle

D-flatted body
Solder pot contact
Fits .125" max. panel
Captive contact

9456-1113-002 (Gold plated)

9456-9113-002 (Passivated)



Press-In Jack Receptacle

Knurled body
Tab contact

Captive contact:

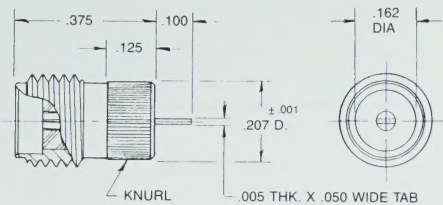
9133-1113-000 (Gold plated)

9133-9113-000 (Passivated)

Non-captive contact:

9133-1213-000 (Gold plated)

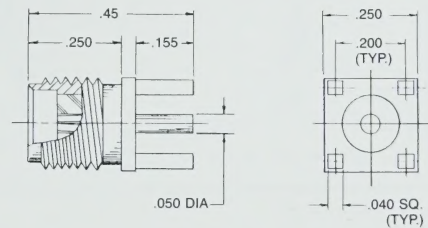
9133-9213-000 (Passivated)



Straight P.C. Board Jack

9650-1113-000 (Gold plated)

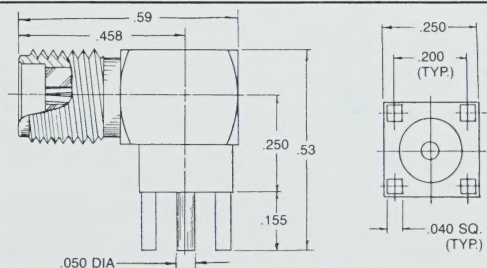
9650-7113-000 (Nickel plated)

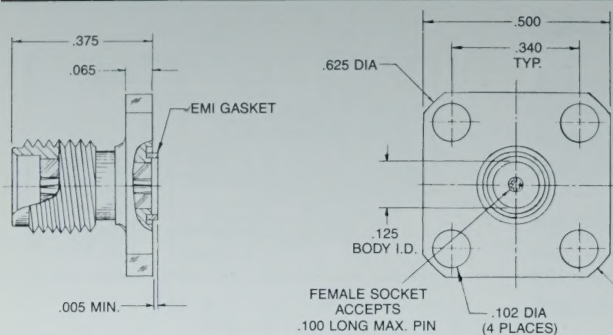


Right Angle P.C. Board Jack

9647-1513-000 (Gold plated)

9647-7513-000 (Nickel plated)



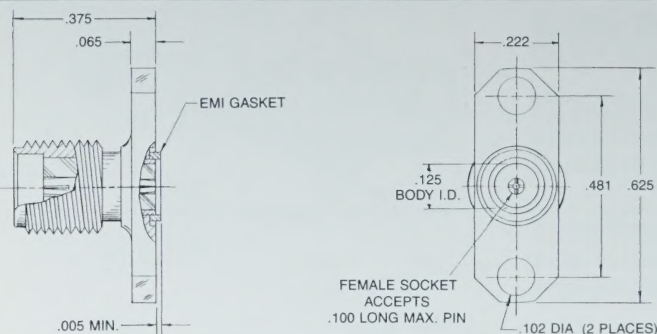


Square Flange Jack

For .011/.015" Pin:
9045-9513-000
9145-9513-000 (Includes 920-55)

For .014/.016" Pin:
9045-9513-001
9145-9513-001 (Includes 920-82)

For .016/.020" Pin:
9049-9513-000
9149-9513-000 (Includes 920-56)

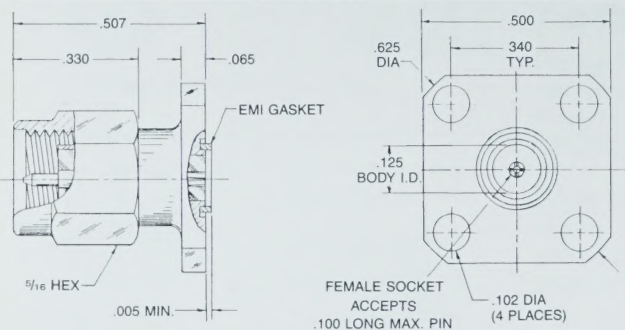


2-Hole Flange Jack

For .011/.015" Pin:
9044-9513-000
9144-9513-000 (Includes 920-55)

For .014/.016" Pin:
9044-9513-001
9144-9513-001 (Includes 920-82)

For .016/.020" Pin:
9048-9513-000
9148-9513-000 (Includes 920-56)

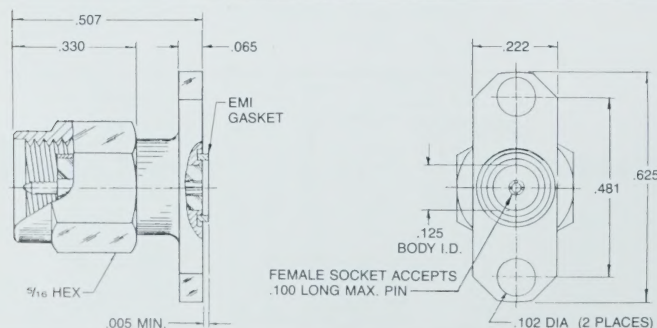


Square Flange Plug

For .011/.015" Pin:
9047-9513-000
9147-9513-000 (Includes 920-55)

For .014/.016" Pin:
9047-9513-001
9147-9513-001 (Includes 920-82)

For .016/.020" Pin:
9051-9513-000
9151-9513-000 (Includes 920-56)



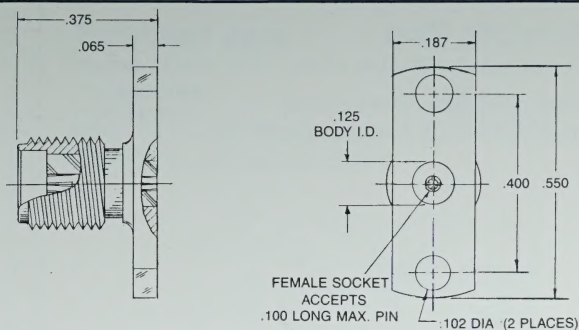
2-Hole Flange Plug

For .011/.015" Pin:
9046-9513-000
9146-9513-000 (Includes 920-55)

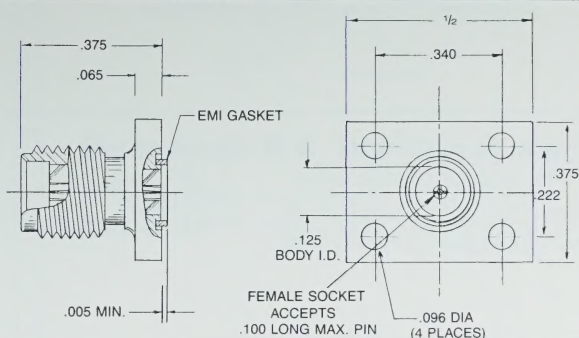
For .014/.016" Pin:
9046-9513-001
9146-9513-001 (Includes 920-82)

For .016/.020" Pin:
9050-9513-000
9150-9513-000 (Includes 920-56)

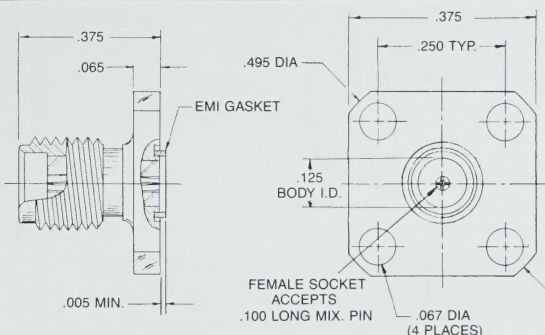
9181-9513-000 (Includes 920-56)



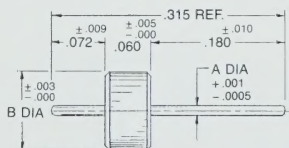
9168-9513-000 (Includes 920-56)



9174-9513-000 (Includes 920-56)



<u>P/N</u>	<u>A</u>	<u>B</u>	<u>Glass</u>
920-55	.012	.097	7052
920-82	.015	.097	7070
920-56	.018	.110	7070



New Haven, CT
203/387-5282

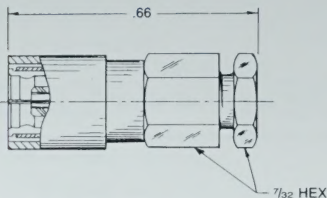


Straight Plug

Clamp type for flexible cable

2002-1551-0XX (Gold plated)
2002-7551-0XX (Nickel plated)

QPL version
available
(M39012/67)

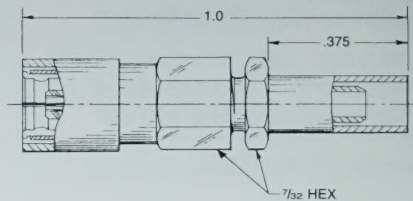


Straight Plug

Crimp type for flexible cable

2002-1571-0XX (Gold plated)
2002-7571-0XX (Nickel plated)

QPL version
available
(M39012/67)

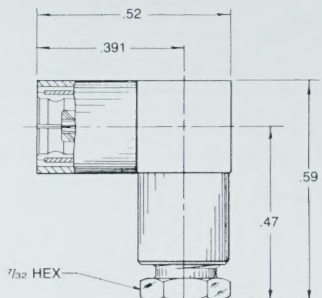


Right Angle Plug

Clamp type for flexible cable

2005-1551-0XX (Gold plated)
2005-7551-0XX (Nickel plated)

QPL version
available
(M39012/69)

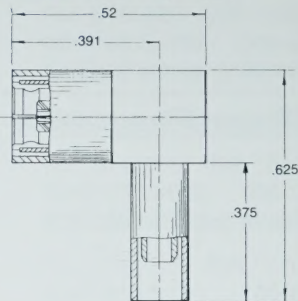


Right Angle Plug

Crimp type for flexible cable

2105-1521-0XX (Gold plated)
2105-7521-0XX (Nickel plated)

QPL version
available
(M39012/69)

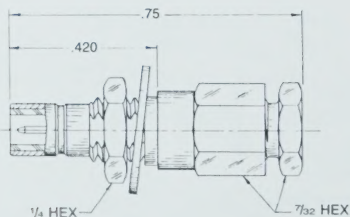


Bulkhead Jack

Clamp type for flexible cable

2003-1551-0XX (Gold plated)
2003-7551-0XX (Nickel plated)

QPL version
available
(M39012/70)

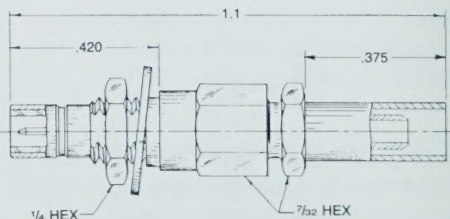


Bulkhead Jack

Crimp type for flexible cable

2003-1571-0XX (Gold plated)
2003-7571-0XX (Nickel plated)

QPL version
available
(M39012/70)



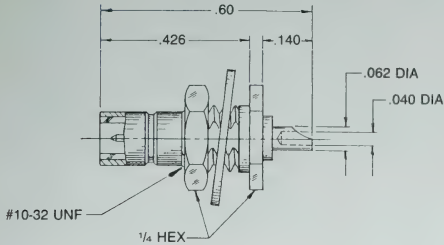
Bulkhead Jack

Solder pot contact
Rear mount

QPL version
available
(M39012/71)

2004-1511-000 (Gold plated)

2004-7511-000 (Nickel plated)



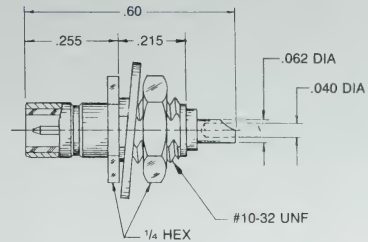
Bulkhead Jack

Solder pot contact
Front mount

QPL version
available
(M39012/71)

2019-1511-000 (Gold plated)

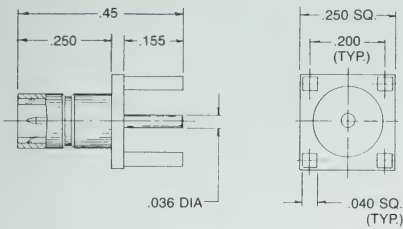
2019-7511-000 (Nickel plated)



Straight P.C. Board Jack

2009-1511-000 (Gold plated)
2009-7511-000 (Nickel plated)

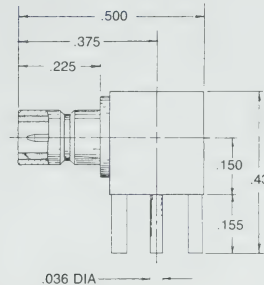
QPL version
available
(M39012/95)



Right Angle P.C. Board Jack

2010-1511-000 (Gold plated)
2010-7511-000 (Nickel plated)

QPL version
available
(M39012/96)

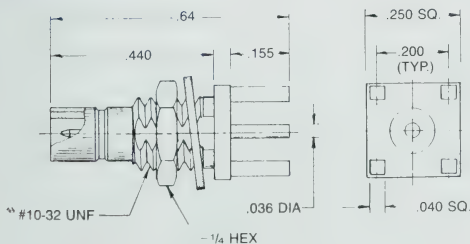


Straight P.C. Board Jack

Bulkhead mounted

2109-1511-000 (Gold plated)

2109-7511-000 (Nickel plated)

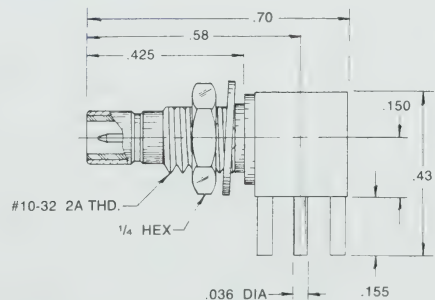


Right Angle P.C. Board Jack

Bulkhead mounted

2110-1511-000 (Gold plated)

2110-7511-000 (Nickel plated)



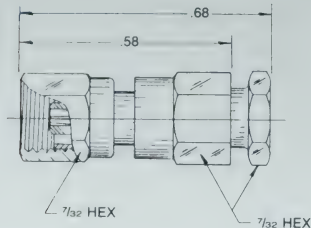


Straight Plug

Clamp type for flexible cable

1002-1551-0XX (Gold plated)
1002-7551-0XX (Nickel plated)

QPL version
available
(M39012/73)

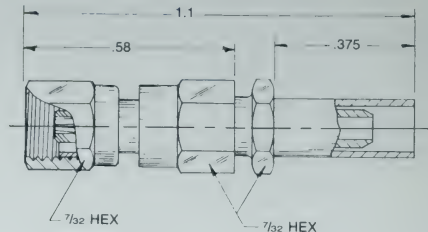


Straight Plug

Crimp type for flexible cable

1002-1571-0XX (Gold plated)
1002-7571-0XX (Nickel plated)

QPL version
available
(M39012/73)

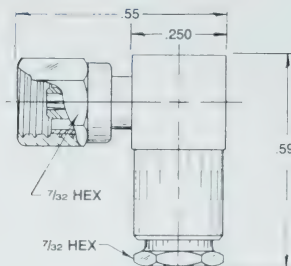


Right Angle Plug

Clamp type for flexible cable

1005-1551-0XX (Gold plated)
1005-7551-0XX (Nickel plated)

QPL version
available
(M39012/75)

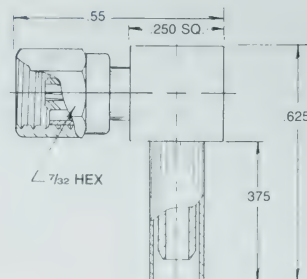


Right Angle Plug

Crimp type for flexible cable

1105-1521-0XX (Gold plated)
1105-7521-0XX (Nickel plated)

QPL version
available
(M39012/75)

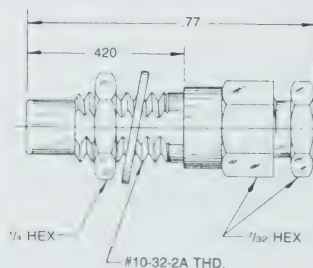


Bulkhead Jack

Clamp type for flexible cable

1003-1551-0XX (Gold plated)
1003-7551-0XX (Nickel plated)

QPL version
available
(M39012/76)

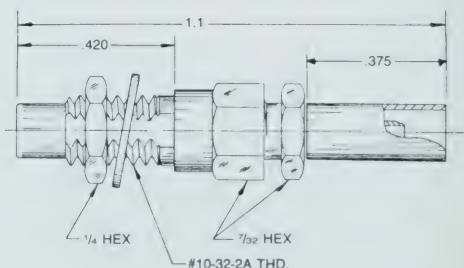


Bulkhead Jack

Crimp type for flexible cable

1003-1571-0XX (Gold plated)
1003-7571-0XX (Nickel plated)

QPL version
available
(M39012/76)

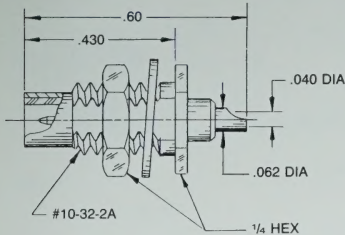


Bulkhead Jack

Solder pot contact
Rear mount

QPL version
available
(M39012/77)

1004-1511-000 (Gold plated)
1004-7511-000 (Nickel plated)

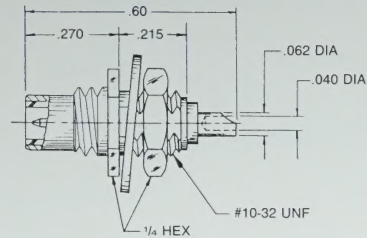


Bulkhead Jack

Solder pot contact
Front mount

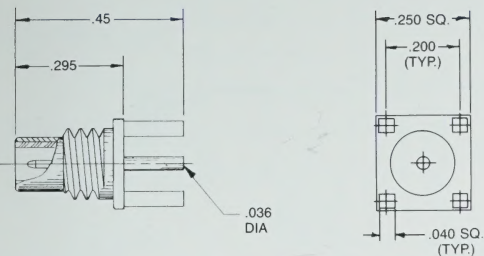
QPL version
available
(M39012/77)

1019-1511-000 (Gold plated)
1019-7511-000 (Nickel plated)



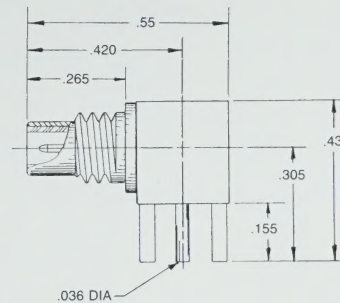
Straight P.C. Board Jack

1009-1511-000 (Gold plated)
1009-7511-000 (Nickel plated)



Right Angle P.C. Board Jack

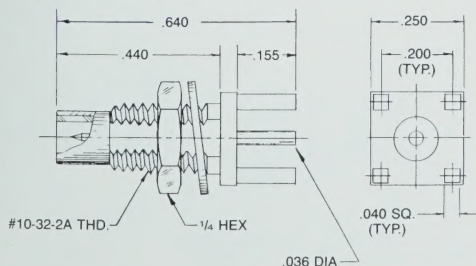
1010-1511-000 (Gold plated)
1010-7511-000 (Nickel plated)



Straight P.C. Board Jack

Bulkhead mounted

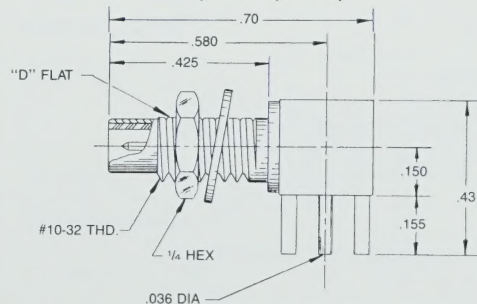
1109-1511-000 (Gold plated)
1109-7511-000 (Nickel plated)



Right Angle P.C. Board Jack

Bulkhead mounted

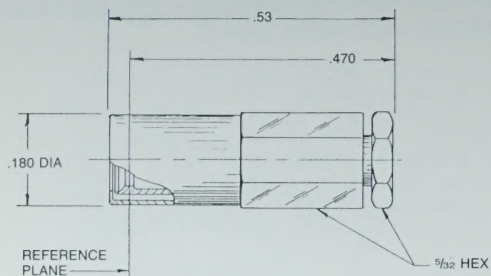
1110-1511-000 (Gold plated)
1110-7511-000 (Nickel plated)



Straight Plug

Solder type for semi-rigid cable

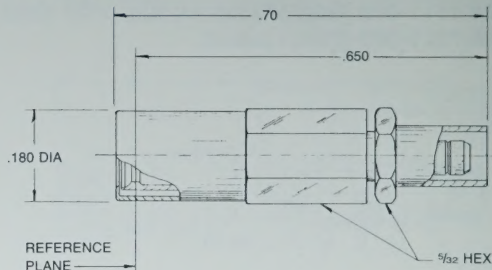
7202-1542-0XX



Straight Plug

Crimp type for flexible cable

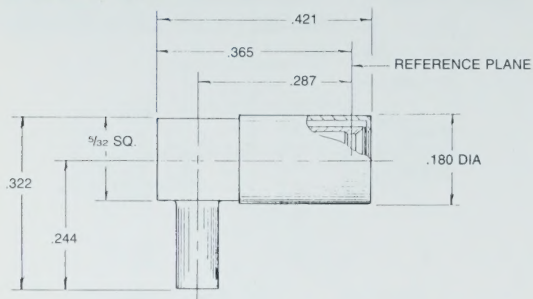
7202-1572-0XX



Right Angle Plug

Solder type for semi-rigid cable

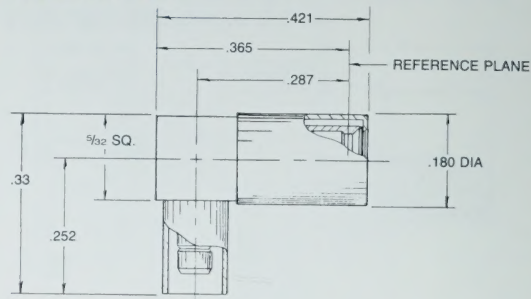
7405-1561-0XX



Right Angle Plug

Crimp type for flexible cable

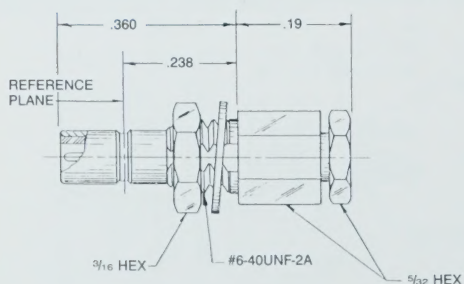
7405-1521-0XX



Bulkhead Jack

Solder type for semi-rigid cable

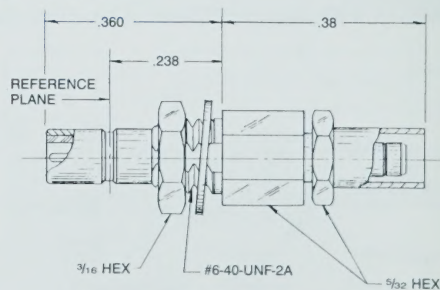
7203-1541-0XX



Bulkhead Jack

Crimp type for flexible cable

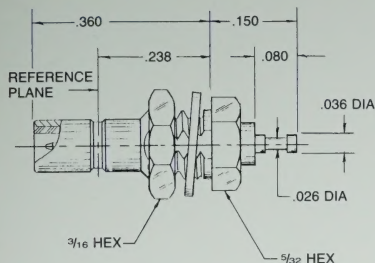
7203-1571-0XX



Bulkhead Jack

Solder pot contact
Rear mount

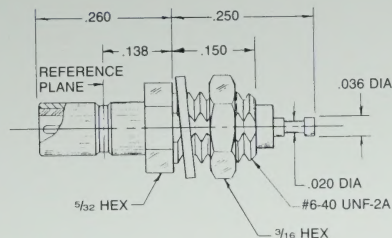
7204-1511-000



Bulkhead Jack

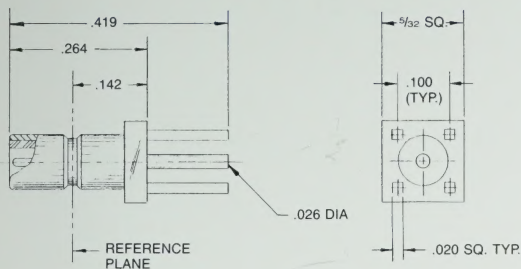
Solder pot contact
Front mount

7219-1511-000



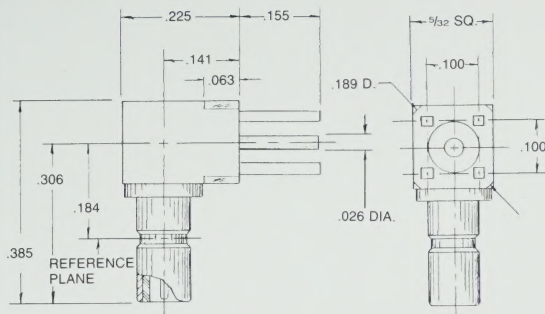
Straight P.C. Board Jack

7209-1511-000



Right Angle P.C. Board Jack

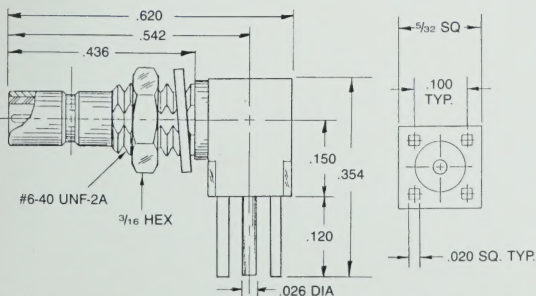
7210-1511-000



Right Angle P.C. Board Jack

Bulkhead mounted

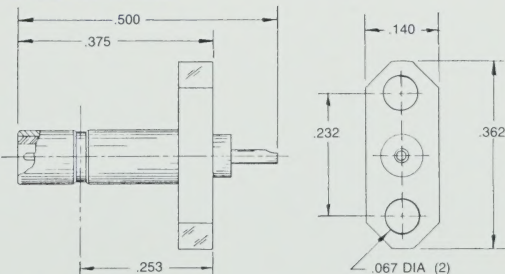
7410-1511-001



Panel Mount Receptacle

Two-hole flange
Solder pot contact
Body material: 303 stainless steel

7499-1513-000



SUBMINIATURE COAXIAL CONNECTORS FROM AEP

The items shown in this short form catalogue represent only a small fraction of our product line. In addition to the parts shown here, we make hundreds of varieties of SMA, SMB, and SMC connectors which may be seen in our full-line catalogue, along with our other product lines:

75 ohm connectors for matched impedance in critical applications. These connectors are available with screw-on or snap-on interfaces, similar to SMC and SMB series.

SMS series connectors are slide-on versions of SMB connectors. Their low insertion force makes them ideal for multiple use in rack and panel applications. They are available with float mounts and closed-entry hoods to prevent damage from angular misalignment during mating.

Cable Terminations are useful for terminating cables to bulkheads or printed circuit boards in applications not requiring disconnection. Use of cable terminations also eliminates the expense of a pair of connectors.

Adapters within and between series are handy items for laboratory or front panel use. See our full-line catalogue for configurations.

Precision Type N Plug for .141 semi-rigid cable. Our P/N 4000-1563-009 features easy one-step assembly, and has VSWR less than 1.20:1 to 18 GHz.

Flexible Cable Assemblies are easier and less expensive to buy from us than to make yourself. We make assemblies with any size cable from RG 196 up to RG 214, with any connectors. A group of standard assemblies is shown in our full-line catalogue.

Semi-rigid Cable Assemblies custom made to your specifications, with cable ranging in size from .085" up to .250" diameter. We build our own bending and trimming machinery to ensure quality and consistency.

MIL-C-39012 QPL approved SMA, SMB, and SMC connectors: Call or write for information.

Connectors That Work. Our production standards exceed MIL-C-39012 requirements. 11% of our workforce is in quality control to make sure these standards are met. Need proof? We've shipped 144,000 cable assemblies (With our SMB connectors) for the ARC-164 military radio—NO REJECTIONS. We've also shipped almost 150,000 SMA and SMB connectors to a major radio manufacturer—NO REJECTIONS.

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